

IN THE CLAIMS:

1. (Currently amended) A computer program product for resetting deleting objects used or managed by an a first application or application instance, said program comprising:

a computer readable medium;

first program instructions, responsive to a request to reset said first application or application instance, for identifying said objects associated with said first application or application instance;

second program instructions, responsive to the request to reset said first application or application instance, for determining one or more of said objects associated with said first application or application instance which were defined by a user of said first application or application instance and determining one or more of said objects associated with said first application or application instance which were automatically created by a computer system including said first application or application instance; and

third~~second~~ program instructions, responsive to the request to reset said first application or application instance, for writing an executable a script program to command said first application or application instance to delete said one or more objects, associated with said first application or application instance, which were created by said user of said first application or application instance; which were identified; and wherein

said computer program product does not, in response to said request to reset said first application or application instance, command deletion of said one or more objects, associated with said first application or application instance, which were automatically created by said computer system, such that said one or more objects, associated with said first application or application instance, which were automatically created by said computer system are not deleted in response to said request to reset said first application or application instance; and

said first, ~~and second~~ and third program instructions are recorded on said medium.

2. (Currently amended) A computer program product as set forth in claim 1 wherein one of said one or more objects, associated with said first application or application instance, which were created by said user of said first application or application instance, is said first program instructions identify a message queue object, and determine whether said queue object contains a work item.

3. (Currently amended) A computer program product as set forth in claim 2 further comprising fourth program instructions, responsive to the request to reset said first application or application instance, to write into said script program a command to said first application or application instance to delete work items on said message queue object, such that said command to delete work items on said message queue object is executed before the command to delete said message queue object; and wherein said fourth program instructions are recorded on said medium, wherein said queue object contains a work item, and second program instructions write into said executable program a command to clear said work item.

4. (Currently amended) A computer program product as set forth in claim 2 1 wherein:

there is a message queue object associated with said first application or application instance;

wherein said first said third program instructions also write into said executable program another command to said first application or application instance to stop a channel connection of another, remote application or application instance to said message queue object, to remove a lock on said message queue object held by said remote application or application instance; and

said third program instructions also write into said executable program another command to said first application or application instance to delete said message queue object after

execution of said command to stop said channel connection of said remote application or application instance, also determine if said queue object is locked.

Claim 5. (Canceled)

6. (Currently amended) A computer program product as set forth in claim 2 wherein said first application or application instance is a middle ware application or application instance which manages said message queue object, said queue object is an alias queue.

Claims 7- 20. (Canceled)

Please enter new claims 21-35 as follows:

21. (New) A computer system for resetting a first application or application instance, said computer system comprising:

means, responsive to a request to reset said first application or application instance, for identifying objects associated with said first application or application instance;

means, responsive to a request to reset said first application or application instance, for determining one or more of said objects associated with said first application or application instance which were defined by a user of said first application or application instance and determining one or more of said objects associated with said first application or application instance which were automatically created by said computer system including said first application or application instance; and

means, responsive to a request to reset said first application or application instance, for writing a script program to command said first application or application instance to delete said one or more objects, associated with said first application or application instance, which were created by said user of said first application or application instance; and wherein

said computer system does not, in response to said request to reset said first application or application instance, delete said one or more objects, associated with said first application or application instance, which were automatically created by said computer system, such that said one or more objects, associated with said first application or application instance, which were automatically created by said computer system are not deleted in response to said request to reset said first application or application instance.

22. (New) A computer system as set forth in claim 21 wherein one of said one or more objects, associated with said first application or application instance, which were created by said user of said first application or application instance, is a message queue object; and further comprising means, responsive to the request to reset said first application or application instance, for writing into said script program a command to said first application or application instance to delete work items on said message queue object, such that said command to delete work items on said message queue object is executed before the command to delete said message queue object.

23. (New) A computer system as set forth in claim 21 wherein there is a message queue object associated with said first application or application instance; and further comprising:

means, responsive to the request to reset said first application or application instance, for writing into said executable program another command to said first application or application instance to stop a channel connection of another, remote application or application instance to said message queue object, to remove a lock on said message queue object held by said remote application or application instance; and

means, responsive to the request to reset said first application or application instance, for writing into said executable program another command to said first application or application instance to delete said message queue object after execution of said command to stop said channel connection of said remote application or application instance.

24. (New) A computer program product for resetting a first application or application instance, said program product comprising:

a computer readable medium;

first program instructions, responsive to a request to reset said first application or application instance, to identify for deletion a queue object used or managed by the first application or application instance;

second program instructions, responsive to the request to reset said first application or application instance, to identify a channel used by another, remote application or application instance to lock and access said queue object, and write into a script program a command to said first application or application instance to stop said channel, wherein a lock held by said remote application or application instance on said queue object will automatically be released in response to execution of said command to stop said channel; and

third program instructions, responsive to the request to reset said first application or application instance, to write into said script program another command, for execution after the command to stop said channel, to said first application or application instance to delete work items on said queue object and/or delete said queue object; and wherein

said first, second and third program instructions are recorded on said medium.

25. (New) A computer program product as set forth in claim 24 further comprising fourth program instructions, responsive to the request to reset said first application or application instance, to determine whether there is another lock on said queue object, other than a lock held by said first application or application instance and other than the lock held by said remote application or application instance pursuant to the connection by said remote application or application instance to said channel, and if so, notify an operator to clear said other lock; and wherein said fourth program instructions are recorded on said medium.

26. (New) A computer program product as set forth in claim 24 wherein said other command is to delete work items on said queue object; and said third program instructions write into said

script program another command to said first application or application instance to determine whether said queue object contains at least one work item, and if not, not to execute said other command to said first application or application instance to delete work items on said queue object.

27. (New) A computer program product as set forth in claim 24 wherein said other command is to delete work items on said queue object; and said third program instructions also write into said script program another command, for execution after the command to stop said channel and said other command to delete work items on said queue object, to said first application or application instance to delete said queue object.

28. (New) A computer program product as set forth in claim 24 wherein said first application or application instance is a middle ware application or application instance which manages said queue object.

29. (New) A computer program product as set forth in claim 28 wherein second program instructions identify said channel used by said remote application or application instance to lock and access said queue object by querying said first application or application instance.

30. (New) A computer system for resetting a first application or application instance, said computer system comprising:

means, responsive to a request to reset said first application or application instance, for identifying for deletion a queue object used or managed by the first application or application instance;

means, responsive to the request to reset said first application or application instance, for identifying a channel used by another, remote application or application instance to lock and access said queue object, and writing into a script program a command to said first application or application instance to stop said channel, wherein said computer system includes means for

automatically releasing a lock held by said remote application or application instance on said queue object in response to execution of said command to stop said channel; and

means, responsive to the request to reset said first application or application instance, for writing into said script program another command, for execution after the command to stop said channel, to said first application or application instance to delete work items on said queue object and/or delete said queue object.

31. (New) A computer system as set forth in claim 30 further comprising means, responsive to the request to reset said first application or application instance, for determining whether there is another lock on said queue object, other than a lock held by said first application or application instance and other than the lock held by said remote application or application instance pursuant to the connection by said remote application or application instance to said channel, and if so, notifying an operator to clear said other lock; and wherein said fourth program instructions are recorded on said medium.

32. (New) A computer system as set forth in claim 30 wherein said other command is to delete work items on said queue object; and further comprising means for writing into said script program another command to said first application or application instance to determine whether said queue object contains at least one work item, and if not, said script program not executing said other command to said first application or application instance to delete work items on said queue object.

33. (New) A computer system as set forth in claim 30 wherein said other command is to delete work items on said queue object; and further comprising means for writing into said script program another command, for execution after the command to stop said channel and said other command to delete work items on said queue object, to said first application or application instance to delete said queue object.

34. (New) A computer system as set forth in claim 30 wherein said first application or application instance is a middle ware application or application instance which manages said queue object.

35. (New) A computer system as set forth in claim 30 wherein said means for identifying said channel identifies said channel used by said remote application or application instance to lock and access said queue object by querying said first application or application instance.